

DAFTAR PUSTAKA

- (1) Affandi; Tanjung, I.; Nasution, A. R.; Fonna, S.; Huzni, S. Investigasi Laju Korosi Atmosferik Baja Karbon Rendah Profil Segiempat Di Kawasan Industri Medan. *J. Teknol.* **2020**, *10* (1), 1–4.
- (2) Hadisaputra, S.; Purwoko, A. A.; Ilhamsyah, I.; Hamdiani, S.; Suhendra, D.; Nuryono, N.; Bundjali, B. A Combined Experimental and Theoretical Study of (E)-Ethyl 3-(4-Methoxyphenyl)Acrylate as Corrosion Inhibitor of Iron in 1 M HCL Solutions. *Int. J. Corros. Scale Inhib.* **2018**, *7* (4), 633–647. <https://doi.org/10.17675/2305-6894-2018-7-4-10>.
- (3) Oguzie, E. E.; Li, Y.; Wang, S. G.; Wang, F. Understanding Corrosion Inhibition Mechanisms - Experimental and Theoretical Approach. *RSC Adv.* **2011**, *1* (5), 866–873. <https://doi.org/10.1039/c1ra00148e>.
- (4) Obot, I. B.; Macdonald, D. D.; Gasem, Z. M. Density Functional Theory (DFT) as a Powerful Tool for Designing New Organic Corrosion Inhibitors: Part 1: An Overview. *Corros. Sci.* **2015**, *99*, 1–30. <https://doi.org/10.1016/j.corsci.2015.01.037>.
- (5) Sidiq, M. F. Electrochemical Process. *Met. Finish.* **2002**, *100* (2), 123. [https://doi.org/10.1016/s0026-0576\(02\)80201-x](https://doi.org/10.1016/s0026-0576(02)80201-x).
- (6) Sithuba, T.; Masia, N. D.; Moema, J.; Murulana, L. C.; Masuku, G.; Bahadur, I.; Kabanda, M. M. Corrosion Inhibitory Potential of Selected Flavonoid Derivatives: Electrochemical, Molecular...Zn Surface Interactions and Quantum Chemical Approaches. *Results Eng.* **2022**, *16* (July). <https://doi.org/10.1016/j.rineng.2022.100694>.
- (7) Rifky, M. Ekstrak Daun Sukun Sebagai Inhibitor Alami Penghambat Korosi Pada Kawat Stainless Steel. *J. Ilm. dan Teknol. Kedokt. Gigi* **2019**, *15* (2), 61. <https://doi.org/10.32509/jitekgi.v15i2.960>.
- (8) Royani, S. Uji Kualitatif Senyawa Metabolit Sekunder Ekstrak Etanol 70 % Daun Sukun (*Artocarpus Altilis*). **2024**, *6*, 142–148.
- (9) Wiyarsi, A.; Priyambodo, E. Pengaruh Konsentrasi Kitosan Dari Cangkang Udang Terhadap Efisiensi Penjerapan Logam Berat. *J. Kim. UNY* **2008**, *1*(1), 27.
- (10) Utomo, S. PENGARUH KONSENTRASI LARUTAN NaNO 2 SEBAGAI INHIBITOR. *J. Teknol.* **2015**, *7* (March), 93–103.
- (11) Kusumastuti, R.; Pramana, R. I.; Soedarsono, J. W. The Use of Morinda Citrifolia as a Green Corrosion Inhibitor for Low Carbon Steel in 3.5% NaCl Solution. *AIP Conf. Proc.* **2017**, *1823*. <https://doi.org/10.1063/1.4978085>.
- (12) McNeill, L. S.; Edwards, M. Review of Iron Pipe Corrosion in Drinking Water Distribution Systems. *J. Awwa* **2001**, *93* (7), 88–100.
- (13) Haryono, G.; Sugiarto, B.; Farid, H. Ekstrak Bahan Alam Sebagai Inhibitor Korosi. *Pros. Semin. Nas. Tek. Kim. "Kejuangan" Pengemb. Teknol. Kim. untuk Pengolah. Sumber Daya Alam Indones.* **2010**, 1–6.
- (14) Swastikawati,dkk, A. Tanin Sebagai Inhibitor Korosi Artefak Besi Cagar Budaya. *J. Konserv. Cagar Budaya* **2017**, *11* (1), 3–21. <https://doi.org/10.33374/jurnalkonservasicagarbudaya.v11i1.165>.
- (15) Gorman, M. J. Iron Homeostasis in Insects. *Annu. Rev. Entomol.* **2023**, *68*, 51–67. <https://doi.org/10.1146/annurev-ento-040622-092836>.
- (16) Stiadi, Y.; Arief, S.; Aziz, H.; Efdi, M.; Emriadi, E. INHIBISI KOROSI BAJA RINGAN MENGGUNAKAN BAHAN ALAMI DALAM MEDIUM ASAM KLOORIDA: Review. *J. Ris. Kim.* **2019**, *10* (1), 51–65. <https://doi.org/10.25077/jrk.v12i2.321>.
- (17) Husna, R.; Emdeniz; Imelda. Studi Toksisitas Floroanilin Berdasarkan Hubungan Kuantitatif Struktur Aktifitas (Hksa) Beberapa Amina Aromatis. *J. Kim. Unand* **2013**, *2* (4), 1–8.
- (18) Kurniawati, I. F.; Sutoyo, S. Review Artikel: Potensi Bunga Tanaman Sukun (*Artocarpus Altilis* [Park. I] Fosberg) Sebagai Bahan Antioksidan Alami. *Unesa J. Chem.* **2021**, *10* (1), 1–11. <https://doi.org/10.26740/ujc.v10n1.p1-11>.
- (19) Sikarwar, M. S.; Hui, B. J.; Subramaniam, K.; Valeisamy, B. D.; Yean, L. K.; Balaji, K. A Review on *Artocarpus Altilis* (Parkinson) Fosberg (Breadfruit). *J. Appl. Pharm. Sci.* **2014**, *4* (8), 91–97. <https://doi.org/10.7324/JAPS.2014.40818>.

- (20) Imelda, I.; Aziz, H.; Aziz, H.; Putri, H. MODIFIKASI STRUKTUR ZAT WARNA BERBASIS TRIFENILAMIN UNTUK MENINGKATKAN KINERJA Dye-SENSITIZED SOLAR CELLS (DSSCs): METODE KOMPUTASI. *J. Res. Educ. Chem.* **2022**, 4 (1), 34. [https://doi.org/10.25299/jrec.2022.vol4\(1\).9357](https://doi.org/10.25299/jrec.2022.vol4(1).9357).
- (21) Hasanah, R.; Haris, M.; Hadisaputra, S. Validitas, Kepraktisan Dan Efektifitas Modul Praktikum Kimia Komputasi Untuk Uji Inhibisi Korosi Dari Senyawa Bahan Alam. *Chem. Educ. Pract.* **2023**, 6 (1), 57–64. <https://doi.org/10.29303/cep.v6i1.3480>.
- (22) Khaled, K. F. Experimental and Computational Investigations of Corrosion and Corrosion Inhibition of Iron in Acid Solutions. *J. Appl. Electrochem.* **2011**, 41 (3), 277–287. <https://doi.org/10.1007/s10800-010-0235-2>.
- (23) Abdulazeez, M. O.; Oyebamiji, A. K.; Semire, B. DFT-QSAR Studies on Corrosion Inhibition Efficiency of Derivatives of Thiadiazole, Oxadiazole and Triazole. *Int. J. Corros. Scale Inhib.* **2016**, 5 (3), 248–262. <https://doi.org/10.17675/2305-6894-2016-5-3-5>.
- (24) Ozoemena, C. p; Charles, M. Computational Modeling and Statistical Analysis on The. *Glob. J. Pure Appl. Chem. Res.* **2019**, 7 (1), 25–46.
- (25) Wazzan, N. A.; Mahgoub, F. M. DFT Calculations for Corrosion Inhibition of Ferrous Alloys by Pyrazolopyrimidine Derivatives. *Open J. Phys. Chem.* **2014**, 04 (01), 6–14. <https://doi.org/10.4236/ojpc.2014.41002>.
- (26) Radhi, A. H.; Du, E. A. B.; Khazaal, F. A.; Abbas, Z. M.; Aljelawi, O. H.; Hamadan, S. D.; Almashhadani, H. A.; Kadhim, M. M. HOMO-LUMO Energies and Geometrical Structures Effecton Corrosion Inhibition for Organic Compounds Predict by DFT and PM3 Methods. *NeuroQuantology* **2020**, 18 (1), 37–45. <https://doi.org/10.14704/nq.2020.18.1.NQ20105>.
- (27) Erdoğan, Ş.; Safi, Z. S.; Kaya, S.; Işın, D. Ö.; Guo, L.; Kaya, C. A Computational Study on Corrosion Inhibition Performances of Novel Quinoline Derivatives against the Corrosion of Iron. *J. Mol. Struct.* **2017**, 1134, 751–761. <https://doi.org/10.1016/j.molstruc.2017.01.037>.
- (28) Akman, F. A Density Functional Theory Study Based on Monolignols: Molecular Structure, HOMO-LUMO Analysis, Molecular Electrostatic Potential. *Cellul. Chem. Technol.* **2019**, 53 (3–4), 243–250. <https://doi.org/10.35812/cellulosechemtechnol.2019.53.24>.
- (29) Obi-Egbedi, N. O.; Ojo, N. D. Computational Studies of the Corrosion Inhibition Potentials of Some Derivatives of 1H-Imidazo [4, 5-F] [1, 10] Phenanthroline. *J. Sci. Res.* **2015**, 14, 50–56.
- (30) Elmsellem, H.; Aouniti, A.; Khoutoul, M.; Chetouani, A.; Hammouti, B.; Benchat, N.; Touzani, R.; Elazzouzi, M. Theoretical Approach to the Corrosion Inhibition Efficiency of Some Pyrimidine Derivatives Using DFT Method of Mild Steel in HCl Solution. *J. Chem. Pharm. Res.* **2014**, 6 (4), 1216–1224.
- (31) Hadisaputra, S.; Hamdiani, S.; Kurniawan, M. A.; Nuryono, N. Influence of Macrocyclic Ring Size on the Corrosion Inhibition Efficiency of Dibenzo Crown Ether: A Density Functional Study. *Indones. J. Chem.* **2017**, 17 (3), 431–438. <https://doi.org/10.22146/ijc.26667>.
- (32) Erazua, E. A.; Adeleke, B. B. A Computational Study of Quinoline Derivatives as Corrosion Inhibitors for Mild Steel in Acidic Medium. *J. Appl. Sci. Environ. Manag.* **2019**, 23 (10), 1819–1824. <https://doi.org/10.4314/jasem.v23i10.8>.
- (33) Ramadhani, F.; Emriadi; Syukri. Theoretical Study of Xanthone Derivative Corrosion Inhibitors Using Density Functional Theory (DFT). *J. Kim. Val.* **2020**, 6 (1), 95–103. <https://doi.org/10.15408/jkv.v6i1.11953>.
- (34) Mi, H.; Xiao, G.; Chen, X. Theoretical Evaluation of Corrosion Inhibition Performance of Three Antipyrine Compounds. *Comput. Theor. Chem.* **2015**, 1072 (April), 7–14. <https://doi.org/10.1016/j.comptc.2015.08.023>.
- (35) Ramadhan, R. G.; Fadli, M. Pemanfaatan Momilakton Sebagai Inhibitor Korosi Besi Ramah Lingkungan: Metode Komputasi. In *Lkti*; 2022; Vol. 1, pp 1–12.
- (36) Lower, S. Chem1 Virtual. *LibreTexts* **2020**, 885.
- (37) Chen, X.; Chen, Y.; Cui, J.; Li, Y.; Liang, Y.; Cao, G. Molecular Dynamics Simulation and DFT Calculation of “Green” Scale and Corrosion Inhibitor. *Comput. Mater. Sci.*

